ABSTRACT

The invention aims to provide a dipeptidyl peptidase IV inhibitor which is satisfactory in respect of activity, stability and safety and has an excellent action as a pharmaceutical agent. The invention is directed to a compound represented by the following general formula or a pharmaceutically acceptable salt thereof:

$$A \xrightarrow{D} \bigcap_{n=1}^{R^1} \bigcap_{H=1}^{R^2} \bigcap_{O} \bigcap_{R^4}^{R^3} \bigcap_{H=1}^{R^3} \bigcap_{O} \bigcap_{R^4}^{R^4} \bigcap_{O} \bigcap_{C}^{R^4} \bigcap_{O} \bigcap_{C}^{R^4} \bigcap_{O} \bigcap_{C}^{R^4} \bigcap_{O} \bigcap_{C}^{R^4} \bigcap_{C}^{R^4}$$

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wherein R¹ and R² each represents hydrogen, an optionally substituted C1-6 alkyl group, or -COOR⁵ whereupon R⁵ represents hydrogen or an optionally substituted C1-6 alkyl group, or R¹ and R², together with a carbon atom to which they are bound, represent a 3- to 6-membered cycloalkyl group, R³ represents hydrogen or an optionally substituted C6-10 aryl group, R⁴ represents a hydrogen or a cyano group, D represents -CONR⁶-, -CO- or -NR⁶CO-, R⁶ represents hydrogen or an optionally substituted C1-6 alkyl group, E represents -(CH₂)m- whereupon m is an integer of 1 to 3, -CH₂OCH₂-, or -SCH₂-, n is an integer of 0 to 3, and A represents an optionally substituted bicyclic heterocyclic group or bicyclic hydrocarbon group.